4. [13 points]
a. [7 points] The graph of the function $f(t)$ is shown below

i) Find a formula for $f(t)$.

ii) Does the function $f(t)$ have an inverse function for $0 \leq t \leq 6$ ? Circle your answer.
YES
NO
It is not possible to be determined.
b. [6 points] Find the value of the following limits.
i) $\lim _{x \rightarrow \infty} \frac{100 \ln (100 x)}{x^{0.2}}=$ $\qquad$
ii) $\lim _{x \rightarrow \infty} \frac{x^{2}\left(5-x^{3}\right)}{3+2 x^{5}+6 x^{2}}=$ $\qquad$
iii) $\lim _{x \rightarrow-\infty} \frac{5+10^{x}}{3^{x}+7}=$
